

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	37	257/E23.179	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/10 17:49
L7	937	257/620	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/10 17:56
L8	1212	257/775	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/10 17:56
S1	19	"6399897" or "6165886" or "4914503"	USPAT	OR	OFF	2005/03/17 19:08
S2	11	"6362524" or "5583380" or "6212077" or "006545348"	USPAT	OR	OFF	2005/03/17 19:11
S3	34	"6300223" or "5831330" or "5834829" or "6028347"	USPAT	OR	OFF	2005/03/17 19:11
S4	37	"6300223" or "5831330" or "5834829" or "6028347" or "20010030358"	US-PGPUB; USPAT	OR	OFF	2005/03/17 19:18
S5	9	"5717245".pn. or "6028497".pn. or "5864092".pn. or "6105226". pn. or "5998245".pn. or "6028347".pn. or "5185654".pn. or "4868716".pn. or "6180876". pn.	US-PGPUB; USPAT	OR	OFF	2005/03/17 19:19
S6	17	"5831330"	USPAT	OR	OFF	2005/03/18 14:21
S7	23386	(semiconductor or die or chip or IC) with seal\$3	USPAT	OR	ON	2005/03/18 14:22
S8	1656	(semiconductor or die or chip or IC) with seal\$3 with ring	USPAT	OR	ON	2005/03/18 14:59
S9	675	257/620	USPAT	OR	ON	2006/10/04 13:33
S10	79	(semiconductor or die or chip or IC) with dummy with ring	USPAT	OR	ON	2005/03/18 16:22

## EAST Search History

S11	1	"5024970".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:00
S12	1	"5414297".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:00
S13	1	"5530280".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:00
S14	1	"5559362".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:00
S15	1	"5665655".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:01
S16	1	"5698892".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:01
S17	1	"5772906".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:01
S18	1	"5831330".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:01
S19	1	"5891808".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:03
S20	1	"5772906".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:04
S21	1	"5723385".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:08
S22	1	"4835592".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:16
S23	1	"5239191".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:16
S24	1	"5285082".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:16
S25	1	"6121677".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:16
S26	1	"6174789".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:17
S27	1	"6194739".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:17
S28	1337	(semiconductor or die or chip or IC) with (guard\$3 or protect\$3 or scrib\$3) with ring	USPAT	OR	ON	2005/03/18 16:22
S29	1924	(semiconductor or die or chip or IC) with (guard\$3 or protect\$3 or scrib\$3 or cutt\$3) with ring	USPAT	OR	ON	2005/03/18 17:20
S30	1	"5818111".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:37
S31	1	"5834829".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:37

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S32	1	"6190947".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:37
S33	1	"6207554".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:37
S34	1	"6271102".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:37
S35	1	"6271102".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:37
S36	1	"6291317".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:37
S37	1	"6294439".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:38
S38	1	"6534386".PN.	USPAT; USOCR	OR	OFF	2005/03/18 16:38
S39	126	257/483	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/14 16:46
S40	227	257/484	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/18 17:23
S41	25749	coefficient near thermal near expansion	USPAT	OR	OFF	2005/03/21 12:13
S42	0	coefficient near thermal near expansion with "/K"	USPAT	OR	OFF	2005/03/21 12:14
S43	7	coefficient near thermal near expansion with degree near "K"	USPAT	OR	OFF	2005/03/21 12:16
S44	0	coefficient near thermal near expansion with degree near "K" with ("Si" or silicon or silicone)	USPAT	OR	OFF	2005/03/21 12:17
S45	2	coefficient near thermal near expansion with degree near "K" same ("Si" or silicon or silicone)	USPAT	OR	OFF	2005/03/21 12:17
S46	3054	coefficient near thermal near expansion with ("Si" or silicon or silicone)	USPAT	OR	OFF	2005/03/21 12:18
S47	50	coefficient near thermal near expansion with ("Si" or silicon or silicone) with "K"	USPAT	OR	OFF	2005/03/21 12:53

## EAST Search History

S48		18	(semiconductor or die or chip or IC) with (guard\$3 or protect\$3 or scrib\$3 or cutt\$3) with ring and corner with (wider or bigger or wide or big or large)	USPAT	OR	OFF	2005/03/24 12:04
S49		7	(semiconductor or die or chip or IC) with (guard\$3 or protect\$3 or scrib\$3 or cutt\$3) with ring same corner with (wider or bigger or wide or big or large)	USPAT	OR	OFF	2005/03/24 12:09
S50		2	(semiconductor or die or chip or IC) with (guard\$3 or protect\$3 or scrib\$3 or cutt\$3) with ring same corner with (wider or bigger or wide or big or large)	US-PGPUB; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/14 13:16
S51		4854	257/758	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/24 20:50
S52		183	(semiconductor or die or chip or IC) same (guard\$3 or protect\$3) with scrib\$3	USPAT	OR	ON	2005/09/14 13:17
S53		183	(semiconductor or die or chip or IC) same (guard\$3 or protect\$3) with scrib\$3	USPAT	OR	ON	2005/09/14 13:20
S54		73	(semiconductor or die or chip or IC) same (guard\$3 or protect\$3) with scrib\$3 near (ring or line)	USPAT	OR	ON	2005/09/14 14:21
S55		21	(semiconductor or die or chip or IC) and (guard\$3 or protect\$3) near (line or ring) with scrib\$3 near (ring or line)	USPAT	OR	ON	2005/09/14 14:17
S56		1	(semiconductor or die or chip or IC) and scrib\$3 near (ring or line) with function with (guard\$3 or protect\$3)	USPAT	OR	ON	2005/09/14 14:19
S57		3	(semiconductor or die or chip or IC) and scrib\$3 near (ring or line) with work\$3 with (guard\$3 or protect\$3)	USPAT	OR	ON	2005/09/14 14:21
S58		125	(semiconductor or die or chip or IC) and scrib\$3 near (ring or line) with (guard\$3 or protect\$3)	USPAT	OR	ON	2005/09/14 15:16
S59		104	S58 not S55	USPAT	OR	ON	2005/09/14 14:22

## EAST Search History

S60	64	scrib\$3 near (ring or line) with (guard\$3 or protect\$3) with (semiconductor or die or chip or IC)	USPAT	OR	ON	2005/09/14 15:16
S61	1	"5721151".PN.	USPAT; USOCR	OR	OFF	2005/09/14 15:28
S62	774	257/620	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/14 16:37
S63	661	257/620	USPAT	OR	ON	2005/09/14 16:38
S64	113	S62 not S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/14 16:39
S65	661	S62 not S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/14 16:39
S66	102	257/483	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/04 13:53
S67	162	257/484	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/14 16:54
S68	5073	257/758	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/14 16:54
S69	935	257/620	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/04 13:33

## EAST Search History

S70	122	257/483	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/04 14:01
S71	203	257/484	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/04 14:06
S72	5937	257/758	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/04 15:37
S73	36	257/E23.179	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/04 15:37